

Serial Number: 09/963,766CRF Processing Date: 2/17/2002Edited by: MEVerified by: ME

(STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

## RAW SEQUENCE LISTING

DATE: 02/17/2002

PATENT APPLICATION: US/09/963,766

TIME: 16:10:19

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF3\02172002\I963766.raw

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5   Ohta, Masataka
7 <120> TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
8   BINDING PROTEIN-COUPLED RECEPTOR PROTEIN, BG3
11 <130> FILE REFERENCE: 06501-087001
13 <140> CURRENT APPLICATION NUMBER: 09/963,766
14 <141> CURRENT FILING DATE: 2001-09-25
16 <150> PRIOR APPLICATION NUMBER: PCT/JP00/01826
17 <151> PRIOR FILING DATE: 2000-03-24
19 <150> PRIOR APPLICATION NUMBER: JP 11/82641
20 <151> PRIOR FILING DATE: 1999-03-25
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37 <222> LOCATION: 4
38 <223> OTHER INFORMATION: n = a, g, c, or t
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PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002  
TIME: 16:10:19

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117 <212> TYPE: DNA

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21

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002  
TIME: 16:10:19

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148                                     1 5
150 ctg tgc tgc tgg tac tcc tgg ctg ctg cta ttt tat tac aac ttt cag 582
151 Leu Cys Cys Trp Tyr Ser Trp Leu Leu Leu Phe Tyr Tyr Asn Phe Gln
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154 gtg cgt ggc gtc tac tcc aga tcg cag gac cat cca gga ttt cag gtg 630
155 Val Arg Gly Val Tyr Ser Arg Ser Gln Asp His Pro Gly Phe Gln Val
156                                     25 30 35
158 ttg gcg tct gct tcc cat tac tgg cca ctg gag aat gtg gat ggg atc 678
159 Leu Ala Ser Ala Ser His Tyr Trp Pro Leu Glu Asn Val Asp Gly Ile
160                                     40 45 50
162 cat gaa ctt cag gat aca act gga gat att gtg gaa ggg aag gtc aac 726
163 His Glu Leu Gln Asp Thr Thr Gly Asp Ile Val Glu Gly Lys Val Asn
164 55 60 65 70
166 aaa ggc att tac ctg aaa gag gaa aag gga gtc acg ctt ctc tat tac 774
167 Lys Gly Ile Tyr Leu Lys Glu Glu Lys Gly Val Thr Leu Leu Tyr Tyr
168                                     75 80 85
170 ggc agg tac aac agc tcc tgc atc agc aag cca gag cag tgt ggc cct 822
171 Gly Arg Tyr Asn Ser Ser Cys Ile Ser Lys Pro Glu Gln Cys Gly Pro
172                                     90 95 100
174 gaa ggg gtc acg ttt tct ttt ttc tgg aag aca caa gga gaa cag tct 870
175 Glu Gly Val Thr Phe Ser Phe Phe Trp Lys Thr Gln Gly Glu Gln Ser
176                                     105 110 115
178 aga cca atc cct tct gcg tat ggg gga cag gtc atc tcc aat ggg ttc 918
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180                                     120 125 130
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187	Asp	Asn	Ser	Met	Thr	Trp	Glu	Ala	Ser	Phe	Ser	Pro	Pro	Gly	Pro	Tyr	
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190	tgg	act	cat	gtc	cta	ttt	aca	tgg	aaa	tcc	aag	gag	ggc	ctg	aaa	gtc	1062
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194	tac	gtc	aac	ggg	acc	ctg	agc	acc	tct	gat	ccg	agt	gga	aaa	gtg	tct	1110
195	Tyr	Val	Asn	Gly	Thr	Leu	Ser	Thr	Ser	Asp	Pro	Ser	Gly	Lys	Val	Ser	
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198	cgt	gac	tat	gga	gag	tcc	aac	gtc	aac	ctc	gtg	ata	ggg	tct	gag	cag	1158
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203	Asp	Gln	Ala	Lys	Cys	Tyr	Glu	Asn	Gly	Ala	Phe	Asp	Glu	Phe	Ile	Ile	
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206	tgg	gag	cgg	gct	ctg	act	ccg	gat	gag	atc	gcc	atg	tac	ttc	act	gct	1254
207	Trp	Glu	Arg	Ala	Leu	Thr	Pro	Asp	Glu	Ile	Ala	Met	Tyr	Phe	Thr	Ala	
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220		280				285					290						
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226	tcc	ctc	tcg	gag	cag	aca	gcc	ttg	aat	ctc	acc	aag	acc	ttc	tta	aaa	1494
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232			330					335					340				
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235	Asp	Ser	Ala	Val	Val	Leu	Ser	Leu	Ile	Asp	Thr	Ile	Asp	Thr	Val	Met	
236			345					350					355				
238	ggc	cat	gta	tcc	tcc	aac	ctg	cac	ggc	agc	acg	ccc	cag	gtc	acc	gtg	1638
239	Gly	His	Val	Ser	Ser	Asn	Leu	His	Gly	Ser	Thr	Pro	Gln	Val	Thr	Val	
240		360				365					370						
242	gag	ggc	tcc	tct	gcc	atg	gca	gag	ttt	tcc	gtg	gcc	aaa	atc	ctg	ccc	1686
243	Glu	Gly	Ser	Ser	Ala	Met	Ala	Glu	Phe	Ser	Val	Ala	Lys	Ile	Leu	Pro	
244	375				380					385				390			
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254	gtc gtg ggt ctg ctg tac cac agc atg cac tac tac ctg aac aac atc							1830
255	Val Val Gly Leu Leu Tyr His Ser Met His Tyr Tyr Leu Asn Asn Ile							
256		425		430		435		
258	tgg ccc gcc cac acc aag atc gcg gag gcc atg cat cac cag gac tgc							1878
259	Trp Pro Ala His Thr Lys Ile Ala Glu Ala Met His His Gln Asp Cys							
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262	ctg ctg ttc gcc acc agc cac ctg att tcc ctg gag gtg tcc cca cca							1926
263	Leu Leu Phe Ala Thr Ser His Leu Ile Ser Leu Glu Val Ser Pro Pro							
264	455		460		465		470	
266	ccc acc ctg tct cag aac ctg tcg ggc tct cca ctc att acg gtc cac							1974
267	Pro Thr Leu Ser Gln Asn Leu Ser Gly Ser Pro Leu Ile Thr Val His							
268		475		480		485		
270	ctc aag cac aga ttg aca cgt aag cag cac agt gag gcc acc aac agc							2022
271	Leu Lys His Arg Leu Thr Arg Lys Gln His Ser Glu Ala Thr Asn Ser							
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274	agc aac cga gtc ttc gtg tac tgc gcc ttc ctg gac ttc agc tcc gga							2070
275	Ser Asn Arg Val Phe Val Tyr Cys Ala Phe Leu Asp Phe Ser Ser Gly							
276		505		510		515		
278	gaa ggg gtc tgg tcg aac cac ggc tgt gcg ctc acg aga gga aac ctc							2118
279	Glu Gly Val Trp Ser Asn His Gly Cys Ala Leu Thr Arg Gly Asn Leu							
280		520		525		530		
282	acc tac tcc gtc tgc cgc tgc act cac ctc acc aac ttt gcc atc ctc							2166
283	Thr Tyr Ser Val Cys Arg Cys Thr His Leu Thr Asn Phe Ala Ile Leu							
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291	Ser Ser Ile Ser Tyr Val Gly Cys Ser Leu Ser Val Leu Cys Leu Val							
292		570		575		580		
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295	Ala Thr Leu Val Thr Phe Ala Val Leu Ser Ser Val Ser Thr Ile Arg							
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298	aac cag cgc tac cac atc cac gcc aac ctg tcc ttc gcc gtg ctg gtg							2358
299	Asn Gln Arg Tyr His Ile His Ala Asn Leu Ser Phe Ala Val Leu Val							
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302	gcc cag gtc ctg ctg ctc att agt ttc cgc ctc gag ccg ggc acg acc							2406
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307	Pro Cys Gln Val Met Ala Val Leu Leu His Tyr Phe Phe Leu Ser Ala							
308		635		640		645		
310	ttc gca tgg atg ctg gtg gag ggg ctg cac ctc tac agc atg gtg atc							2502
311	Phe Ala Trp Met Leu Val Glu Gly Leu His Leu Tyr Ser Met Val Ile							
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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002

TIME: 16:10:21

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Output Set: N:\CRF3\02172002\I963766.raw

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OIKE

## RAW SEQUENCE LISTING

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DATE: 02/08/2002

TIME: 11:39:39

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Date Name

4 <110> APPLICANT: Nakamura, Takao  
 5 Ohta, Masataka  
 7 <120> TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)  
 8 BINDING PROTEIN-COUPLED RECEPTOR PROTEIN, BG3  
 11 <130> FILE REFERENCE: 06501-087001  
 13 <140> CURRENT APPLICATION NUMBER: 09/963,766  
 14 <141> CURRENT FILING DATE: 2001-09-25  
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 17 <151> PRIOR FILING DATE: 2000-03-24  
 19 <150> PRIOR APPLICATION NUMBER: JP 11/82641  
 20 <151> PRIOR FILING DATE: 1999-03-25  
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 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0

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 411 <213> ORGANISM: Homo sapiens  
 413 <400> SEQUENCE: 6  
 414 Met Glu Lys Leu Leu Arg Leu Cys Cys Trp Tyr Ser Trp Leu Leu Leu  
 415 1 5 10 15  
 416 Phe Tyr Tyr Asn Phe Gln Val Arg Gly Val Tyr Ser Arg Ser Gln Asp  
 417 20 25 30  
 418 His Pro Gly Phe Gln Val Leu Ala Ser Ala Ser His Tyr Trp Pro Leu  
 419 35 40 45  
 420 Glu Asn Val Asp Gly Ile His Glu Leu Gln Asp Thr Thr Gly Asp Ile  
 421 50 55 60  
 422 Val Glu Gly Lys Val Asn Lys Gly Ile Tyr Leu Lys Glu Glu Lys Gly  
 423 65 70 75 80  
 424 Val Thr Leu Leu Tyr Tyr Gly Arg Tyr Asn Ser Ser Cys Ile Ser Lys  
 425 85 90 95  
 426 Pro Glu Gln Cys Gly Pro Glu Gly Val Thr Phe Ser Phe Phe Trp Lys  
 427 100 105 110  
 428 Thr Gln Gly Glu Gln Ser Arg Pro Ile Pro Ser Ala Tyr Gly Gly Gln  
 429 115 120 125  
 430 Val Ile Ser Asn Gly Phe Lys Val Cys Ser Ser Gly Gly Arg Gly Ser  
 431 130 135 140  
 432 Val Glu Leu Tyr Thr Arg Asp Asn Ser Met Thr Trp Glu Ala Ser Phe  
 433 145 150 155 160  
 434 Ser Pro Pro Gly Pro Tyr Trp Thr His Val Leu Phe Thr Trp Lys Ser



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002

TIME: 11:39:39

Input Set : A:\06501-087001.TXT

Output Set: N:\CRF3\02082002\I963766.raw

```

435          165          170          175
436 Lys Glu Gly Leu Lys Val Tyr Val Asn Gly Thr Leu Ser Thr Ser Asp
437          180          185          190
438 Pro Ser Gly Lys Val Ser Arg Asp Tyr Gly Glu Ser Asn Val Asn Leu
439          195          200          205
440 Val Ile Gly Ser Glu Gln Asp Gln Ala Lys Cys Tyr Glu Asn Gly Ala
441          210          215          220
442 Phe Asp Glu Phe Ile Ile Trp Glu Arg Ala Leu Thr Pro Asp Glu Ile
443 225          230          235          240
444 Ala Met Tyr Phe Thr Ala Ala Ile Gly Lys His Ala Leu Leu Ser Ser
445          245          250          255
446 Thr Leu Pro Ser Leu Phe Met Thr Ser Thr Ala Ser Pro Val Met Pro
447          260          265          270
448 Thr Asp Ala Tyr His Pro Ile Ile Thr Asn Leu Thr Glu Glu Arg Lys
449          275          280          285
450 Thr Phe Gln Ser Pro Gly Val Ile Leu Ser Tyr Leu Gln Asn Val Ser
451          290          295          300
452 Leu Ser Leu Pro Ser Lys Ser Leu Ser Glu Gln Thr Ala Leu Asn Leu
453 305          310          315          320
454 Thr Lys Thr Phe Leu Lys Ala Val Gly Glu Ile Leu Leu Leu Pro Gly
455          325          330          335
456 Trp Ile Ala Leu Ser Glu Asp Ser Ala Val Val Leu Ser Leu Ile Asp
457          340          345          350
458 Thr Ile Asp Thr Val Met Gly His Val Ser Ser Asn Leu His Gly Ser
459          355          360          365
460 Thr Pro Gln Val Thr Val Glu Gly Ser Ser Ala Met Ala Glu Phe Ser
461          370          375          380
462 Val Ala Lys Ile Leu Pro Lys Thr Val Asn Ser Ser His Tyr Arg Phe
463 385          390          395          400
464 Pro Ala His Gly Gln Ser Phe Ile Gln Ile Pro His Glu Ala Phe His
465          405          410          415
466 Arg His Ala Trp Ser Thr Val Val Gly Leu Leu Tyr His Ser Met His
467          420          425          430
468 Tyr Tyr Leu Asn Asn Ile Trp Pro Ala His Thr Lys Ile Ala Glu Ala
469          435          440          445
470 Met His His Gln Asp Cys Leu Leu Phe Ala Thr Ser His Leu Ile Ser
471          450          455          460
472 Leu Glu Val Ser Pro Pro Pro Thr Leu Ser Gln Asn Leu Ser Gly Ser
473 465          470          475          480
474 Pro Leu Ile Thr Val His Leu Lys His Arg Leu Thr Arg Lys Gln His
475          485          490          495
476 Ser Glu Ala Thr Asn Ser Ser Asn Arg Val Phe Val Tyr Cys Ala Phe
477          500          505          510
478 Leu Asp Phe Ser Ser Gly Glu Gly Val Trp Ser Asn His Gly Cys Ala
479          515          520          525
480 Leu Thr Arg Gly Asn Leu Thr Tyr Ser Val Cys Arg Cys Thr His Leu
481          530          535          540
482 Thr Asn Phe Ala Ile Leu Met Gln Val Val Pro Leu Glu Leu Ala Arg
483 545          550          555          560

```

## RAW SEQUENCE LISTING

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Input Set : A:\06501-087001.TXT

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```

484 Gly His Gln Val Ala Leu Ser Ser Ile Ser Tyr Val Gly Cys Ser Leu
485                565                570                575
486 Ser Val Leu Cys Leu Val Ala Thr Leu Val Thr Phe Ala Val Leu Ser
487                580                585                590
488 Ser Val Ser Thr Ile Arg Asn Gln Arg Tyr His Ile His Ala Asn Leu
489                595                600                605
490 Ser Phe Ala Val Leu Val Ala Gln Val Leu Leu Leu Ile Ser Phe Arg
491                610                615                620
492 Leu Glu Pro Gly Thr Thr Pro Cys Gln Val Met Ala Val Leu Leu His
493 625                630                635                640
494 Tyr Phe Phe Leu Ser Ala Phe Ala Trp Met Leu Val Glu Gly Leu His
495                645                650                655
496 Leu Tyr Ser Met Val Ile Lys Val Phe Gly Ser Glu Asp Ser Lys His
497                660                665                670
498 Arg Tyr Tyr Tyr Gly Met Gly Trp Gly Phe Pro Leu Leu Ile Cys Ile
499                675                680                685
500 Ile Ser Leu Ser Phe Ala Met Asp Ser Tyr Gly Thr Ser Asn Asn Cys
501                690                695                700
502 Trp Leu Ser Leu Ala Ser Gly Ala Ile Trp Ala Phe Val Ala Pro Ala
503 705                710                715                720
504 Leu Phe Val Ile Val Val Asn Ile Gly Ile Leu Ile Ala Val Thr Arg
505                725                730                735
506 Val Ile Ser Gln Ile Ser Ala Asp Asn Tyr Lys Ile His Gly Asp Pro
507                740                745                750
508 Ser Ala Phe Lys Leu Thr Ala Lys Ala Val Ala Val Leu Leu Pro Ile
509                755                760                765
510 Leu Gly Thr Ser Trp Val Phe Gly Val Leu Ala Val Asn Gly Cys Ala
511                770                775                780
512 Val Val Phe Gln Tyr Met Phe Ala Thr Leu Asn Ser Leu Gln Gly Leu
513 785                790                795                800
514 Phe Ile Phe Leu Phe His Cys Leu Leu Asn Ser Glu Val Arg Ala Ala
515                805                810                815
516 Phe Lys His Lys Thr Lys Val Trp Ser Leu Thr Ser Ser Ser Ala Arg
517                820                825                830
518 Thr Ser Asn Ala Lys Pro Phe His Ser Asp Leu Met Asn Gly Thr Arg
519                835                840                845
520 Pro Gly Met Ala Ser Thr Lys Leu Ser Pro Trp Asp Lys Ser Ser His
521                850                855                860
522 Ser Ala His Arg Val Asp Leu Ser Ala Val
523 865                870

```

E--&gt; 527 (7)

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002

TIME: 11:39:40

Input Set : A:\06501-087001.TXT

Output Set: N:\CRF3\02082002\I963766.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:527 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6